

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/840,209	04/23/2001	Jin Lu	US 010191	3948
24737 7	7590 12/18/2006		EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			BOCCIO, VINCENT F	
P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
			2621	
			DATE MAILED: 12/18/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/840,209	LU, JIN	
Office Action Summary	Examiner	Art Unit	_
	Vincent F. Boccio	2621	
The MAILING DATE of this communication app Period for Reply	oears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period in Failure to reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. tely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on RCE	of 10/6/06 and arguments of 9/5/	06.	
•	action is non-final.	<u></u> -	
3) Since this application is in condition for allowa		secution as to the merits is	
closed in accordance with the practice under E			
Disposition of Claims			
4) Claim(s) 1-20 is/are pending in the application		•	
4a) Of the above claim(s) is/are withdra			
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1-20</u> is/are rejected.	•	•	
7) Claim(s) is/are objected to.		·	
8) Claim(s) are subject to restriction and/o	r election requirement.	•	
Application Papers		,	
9) The specification is objected to by the Examine	er -		
10) The drawing(s) filed on is/are: a) acc		Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct			
11) The oath or declaration is objected to by the Ex	7		
Priority under 35 U.S.C. § 119	•		
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. & 119(a)	-(d) or (f)	
a) ☐ All b) ☐ Some * c) ☐ None of:	priority under do d.d.d. 3 1 10(a)	(4) 51 (1).	
1. ☐ Certified copies of the priority document	s have been received		
2. Certified copies of the priority document		on No	
3. Copies of the certified copies of the prior			
·		d III tills National Stage	
application from the International Bureat * See the attached detailed Office action for a list		d ·	
oce the attached detailed office action for a list	of the defined copies not receive	u.	
		,	
Attachment(s)	_		
Notice of References Cited (PTO-892)	4) Interview Summary		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) B) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P		
Paper No(s)/Mail Date	6) Other:		

Application/Control Number: 09/840,209 Page 2

Art Unit: 2621

DETAILED ACTION

The Group and/or Art Unit location of your application in the PTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Group Art Unit 2621.

Response to Arguments

1. Applicant's arguments filed on 4/28/06 against the amended claims 1-20 have been fully considered but they are not persuasive.

The examiner has reviewed all arguments and fails to find any persuasive arguments.

The examiner incorporates by reference previous all previous arguments, which address present arguments.

2. Applicant's arguments with respect to claims have been considered but new ground(s) of rejection are also provided.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Motorola "Integrated Data-casting Solutions for Digital TV (6/1999) or, in the alternative, under 35 U.S.C. 103(a), as obvious over Dureau (US 2005/0111823 A1) in view of Ullman et al. (US 20040236865 A1).

Regarding claim 1, Motorola PUB. discloses and meets the limitations associated with a data apparatus comprising:

 a storage medium for storing selected portions of transmitted data cast streams (page 6, "Data Assimilation", cached, content storage and local branding; Application/Control Number: 09/840,209

Art Unit: 2621

• a controller receiving within the local facility receiving a first data cast (pages 6-7, "Input files, Broadcast Server, Scheduling, Content Preparation/Editing", "A vast array of data may be brought in from a variety of media, terrestrial media can be deliver IP data to the station"),

Page 3

wherein the controller determines based on branding and user profiles and performs targeting with a processor or controller is based on a user profile (page 5, "USER Profile").

Users can be grouped, sub-grouped even uni-cast, based on (page 7, "multicasting to demographic groups and user profiles", therefore, groups and even sub-groups), and uni-casting by targeting a specific PC users, based on user profiles and demographic, wherein all three types of network session are possible in the same service, the filtering is accomplished according to page 11-12, "user's view history back to the TV station over the internet to the local station, wherein system targets either groups, sub-groups even specific users, based on demographic and user profiles.

On the alternative the examiner cites <u>Dureau teaches at</u> page 7, [0063], "User information such as profile data may also be uploaded to the receiver station or the broadcast station for <u>filtering downloads</u> or customizing program content which is displayed on the television.", as taught by <u>Dureau</u>.

Therefore, it would have been obvious to those skilled in the art to modify Motorola integrated data casting solutions by uploading user profiles to the local station and to select or filter contents received from various sources, with the profile and a controller to performing targeting by selecting content based on profiles, to either queue or store the selected blocks to perform group or uni-casting to better target the community, based on the decided needs of the community.

The examiner renders inherent to store blocks based on a user specific ID or profile, when targeting or even group casting, associated with branding (providing identifying markings to distinguish content, to thereafter filtering by selecting datacast files, based on branding) and selecting from the caches content and scheduling, prior to transmission, to

Art Unit: 2621

storage, such as transmission queues prior to transmission of multi-casting data, uni-casting data and group casting data in one system, in view of pages 5-12, that based on page 9 to be operable the examiner renders the buffering or queues a required feature to perform the operation of the downstream data inserter to be operable, the examiner believes that the system would not be operable without buffering or queues for transmission content to be injected or inserted into an MPEG transport stream by opportunistic-ly injected, the data where null packets previously existed in the MPEG stream (page 10).

On the alternative the examiner takes official notice that providing queues or placeholders for data-casting, or an order of transmission, operating as such as a FIFO or other type ordering (additional priority considerations), is well known in the art, therefore, it would have been obvious to one skilled in the art at the time of the invention to utilize transmission queues or placeholders in memory, or queue locations or a sequence or an order, for transmitting the multicast data-cast, and a subgroup data-cast such as based on demographic data and a uni-cast queue, to one and to utilize a plurality transmission queues to order the transmission, as would have been obvious to and is well known to those skilled in the art.

To support the official notice taken, the examiner had provided multiple references, see final office action, that teach queues for the transmission types, uni-casting, group casting, operations.

Regarding claims 2-8, the combination with Motorola further meets the limitations of wherein the system comprises a plurality of end user apparatuses (page 7, "multicasting to demographic groups", which also meets the limitation of wherein the group is met by all, and/or at least one subgroup associated with all, met by demographic groups/groups) and further to multicast to a group or subgroup requires an address unique to the demographic and uni-casting or only by one, wherein unicasting is targeting which requires a unique address associated with one end user, also page 7, as disclosed.

Claims 9-16 represent the corresponding method claims, associated with the apparatus claims above, are analyzed and discussed with respect to the claims 1-8 above.

It is noted that the claims have been amended to include, "a transmission device within the local broadcast facility configured to transmit the first data cast in accordance with the first content parameter", met by the combination as applied wherein branding identified the content, preferences are used to

Application/Control Number: 09/840,209

Art Unit: 2621

select or filter from the available content, cached to the local broadcasting station to be scheduled and stored in queues waiting for an opportunistic null packet removal and data insertion, deemed required to have buffer or queued and thereafter, transmission (page 5, see Broadcast Antenna, "DTV TRANSMITTER"), of the transport stream (Figs., of page 9, 10) with data packets inserted opportunistically, by removing null packets.

Regarding claims 17-18, Motorola discloses and meets the limitations associated with a TV broadcasting system capable of transmitting data-cast streams to a plurality of storage apparatuses (page 5 and/or page 6 and/or page 7 and/or pages 8-9), the TV broadcasting system comprising:

a data retrieval and a memory (page 6, memory met by "cached", "content is cached on a server where it can be scheduled for broadcast"), controller capable of accessing a plurality of data sources (page 6, sources met by a source of NEWS, Finance, Sports and Technology into the "INTERNET CLOUD", and other sources, to HUB, "TV station to lunch a sustaining data-cast service ... the station can also seek out additional data through the Internet to augment its data-casts") and retrieving from each of the sources WEB page data (page 6, "Internet", "search the WEB") and wherein the content can be internet content or Web pages, page 4.

Motorola discloses caching prior to broadcasting and meets all the limitations such as groups multicast and subgroups multicast using demographics and even uni-casting

but, fails to particularly disclose or specifically mention, wherein the memory for storing the retrieved WEB page data in

a plurality of transmission QUEUES,

first queues for all apparatuses (multi-casting);

second queues multicast only by selected subgroups of the plurality of storage apparatuses (demographic multi-casting).

The examiner renders inherent to provide transmission queues for multi-casting, uni-casting and group casting in view of pages 5-12, that based on page 9 to be operable the examiner renders the buffering or queues a required feature to perform the operation of the downstream data inserter to be operable,

Art Unit: 2621

the examiner believes that the system would not be operable without buffering or queues for transmission content to be injected or inserted into an MPEG transport stream by opportunistic-ly injected, the data where null packets previously existed in the MPEG stream (page 10).

The examiner takes official notice that providing queues or placeholders for data-casting, or an order of transmission, operating as such as a FIFO or other type ordering (additional priority considerations), is well known in the art, therefore, it would have been obvious to one skilled in the art at the time of the invention to utilize transmission queues or placeholders in memory, or queue locations or a sequence or an order, for transmitting the multicast data-cast, and a subgroup data-cast such as based on demographic data and a uni-cast queue, to one and to utilize a plurality transmission queues to order the transmission, as would have been obvious to and is well known to those skilled in the art.

To support the official notice the examiner had provided multiple references, see in the previous final office action.

Regarding claim 19, the combination as applied with Motorola further meets the limitation of wherein the transmission controller based on the combination applied provides for a plurality of queues for the first, second and third transmissions, being multicasting, group or even sub-group multicasting and uni-cast transmission ordering and further Motorola, further discloses wherein according to page 7, the data-casts can have transmitted at predetermined times of the day (page 7, met by assigning start times, also see "files in the user's PC can be undated at predetermined times to keep their contents accurate"), therefore, meeting the limitation at predetermined times of the day.

Regarding claim 20, the combination provides for unicasting, therefore, to unicast the unique ID is an inherent feature to send something specifically to one apparatus or user's PC that is targeted.

Regarding claims 1-, 9-, 17-, it is deemed that Motorola provides for the system that can receive, cache, brand and schedule transmission of content in uni-casting, multicasting and broadcasting data casting methods, inserting by replacing NULL packets in a transport stream and performing buffering.

An alternative rejection under 103, based on the arguments presented, as implied in combination the prior art **fails to**

Art Unit: 2621

clearly teach a controller which automates the process of determining content to send based in a user profile against a (content parameter) and buffering or storing the content on a medium prior to transmission.

It is deemed inherent once content has been judged (branded and compared to user profiles), to store in a buffer or store to uni-cast or multicasting queues, based on the comparison and to replacement of null packets of an active stream going by (page 9, Motorola).

Ullman et al. teaches to accomplish personalization of service, with a stored user profile ... automatic choices can be made by an algorithm (such as a FILTER) residing on the service ... thereby links to content which is content in itself can be directed and relevant to users interests, demographics, history or behavior in the system (0041-0042 etc...), as taught by Ullman.

Therefore, it would have been obvious to one skilled in the art at the time of the invention to provide for an automatic means or an algorithm as taught by Ullman to use the user profiles available (to target uni-casting or multicasting) and compare or make choices by an algorithm (such as a filter) residing in the local broadcast facility to obtain a profile for users use an algorithm one the data cast data has been cached and branded, to the local broadcast station, to apply an algorithm or an automated means, to determine content to be stored or queued (scheduled), thereby making the decision to determine what data cast data to transmit automatic, as taught by Ullman.

Contact Fax Information

Any response to this action should be faxed to:

(571) 273-8300, for communication as intended for entry, this Central Fax Number as of 7/15/05

Contact Information

Any inquiry concerning this communication or earlier communications should be directed to the examiner of record, Monday-Tuesday & Thursday-Friday, 8:00 AM to 5:00 PM Vincent F. Boccio (571) 272-7373.

Primary Examiner, Boccio, Vincent 12/11/06

MINCENT BOCCIO VINCENT BOCCIO BRIMARY EXAMINER